

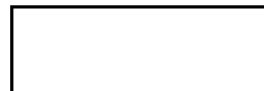
25X1

CONFIDENTIAL

Approved For Release 2003/01/28 : CIA-RDP78B04747A002900040017-9

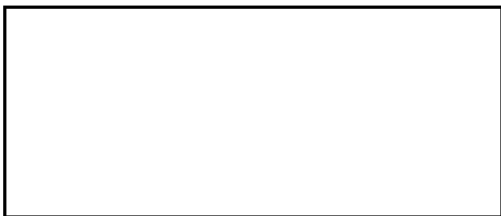
977023

25X1




15 March 1967
552 - OD-324

25X1



Progress Report
February 1967 - Projects 552 and 552A

Gentlemen:

Enclosed are three (3) copies of  Progress Report on Projects 552 and 552A for the period February 1967.

25X1

Very truly yours,



25X1

Executive Vice President

LHB/aw
Enc. (3) P.R.

Cert. #855555

Declass Review by
NIMA/DOD

CONFIDENTIAL

Approved For Release 2003/01/28 : CIA-RDP78B04747A002900040017-9

OPTICAL · MECHANICAL · ELECTRONIC SYSTEMS · RESEARCH & DEVELOPMENT · PRODUCTION · MANUFACTURING

GROUP 1
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND
DECLASSIFICATION

10 March 1967
552-552A-OD-322

10/2/1967

PROGRESS REPORT - 552 and 552A

for February 1967

552 #101

Laser power supplies were modified to incorporate mercury displacement relays as the improved high voltage safety interruptors replaced capacitor bank dumping relays with plug-in units with greater current capacity, and replaced and remounted damaged charge current limiting resistors. Units were thoroughly checked before leaving factory and proved to be quite reliable at the time of test. Laser heads will be returned when service call is made early in March to install lasers. Heads require cleaning of crystals and cavity, although one crystal is pitted and will require resurfacing and coating soon.

552A #102

We are awaiting action on proposal to repair system.

552A #103

A trip was made early in February to answer continued intermittent scanning drive failures. Principal trouble area was contact failure of latching relay used to drive two multiple relays in the frequency determining circuits. Once these corrections were made, reliable operation returned.

552A #104

Continuing debugging of film drive has prevented anticipated completion of work in February. Nature of work has been to refine mechanical and electrical design for reliable operation in

552-552A-OD-322
Progress Report

areas of relay operation, in general, load sensor for power assist mode and drive creep. To arrange the circuit for the many drive functions, several types of multipole relays are used whose timing of operation was critical. Relay operation is now keyed to the slower element, the direction determining latching relay. The success of the power assist mode is bound up in reliable operation of drive load sensor, not only to be responsive to load changes, but also to provide reasonable "assistance" factor of load, both with reliable and precise operation.

A balance of these two directions is being developed. Most of the above effort has required relatively small changes to drive and continued work is expected to do the same. Because of above effort, final system touch up has not been done and is now expected to be completed in March.

Enclosure: Financial Report

WWB:maj